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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,234	<u> </u>	11/13/2003	Lawrence M. Kauvar	388512010410	1178
25225	7590	05/03/2004		EXAMINER	
1.10111101		ERSTER LLP	YANG, NELSON C		
3811 VALLEY CENTRE DRIVE SUITE 500				ART UNIT	PAPER NUMBER
		CA 92130-2332		1641	
				DATE MAILED: 05/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/713,234	KAUVAR, LAWRENCE M.				
Office Action Summary	Examiner	Art Unit				
TI MAU INO DATE Afair a commission ope	Nelson Yang	1641				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>13 N</u> 2a) This action is FINAL . 2b) This	lovember 2003. s action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 14-17 and 19 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 14-17 and 19 is/are rejected. 7) Claim(s) is/are objected to.	wn from consideration.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Date					
Notice of Draitsperson's Patent Drawing Neview (110-340) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 1/20/04.	-	l Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 14-16, 17, 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. With respect to claim 14, it is unclear what would be considered to be toxic compounds or toxins, since many compounds have the potential to be toxic at sufficient concentrations, and would therefore be considered to be toxins.
- 4. Claim 14 recites the limitation "the toxin" in line 4. There is insufficient antecedent basis for this limitation in the claim. It is unclear if applicant is referring to the toxic compound in the first two lines of the claim or something else.
- 5. Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the steps that evaluate the efficacy of a candidate antidote for a toxic compound. While applicant teaches the identification of an antidote to a toxin, applicant does not teach how the efficacy of the antidote would be evaluated.
- 6. The term "similarity" in claim 17 is a relative term which renders the claim indefinite.

 The term "similarity" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is unclear what would constitute sufficient similarity in

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order to identify a compound as a medicament to ameliorate a disease condition. Furthermore, it is unclear what sorts of measurements or means of determination would be used to make this determination.

- 7. The term "more closely similar" in claim 19 is a relative term which renders the claim indefinite. The term "more closely similar" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Furthermore it is unclear what the profile is being compared with in order to be more closely similar, and what values or ranges would be considered for the profile to be "more closely similar" to that of normal cells.
- 8. The remaining claims are indefinite due to their dependence on an indefinite claim.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 14-17, 19 are rejected under 35 U.S.C. 102(a) as being anticipated by Ping et al [Ping et al, Isoform-selective activation of protein kinase C by nitric oxide in the heart of conscious rabbits: a signaling mechanism for both nitric oxide-induced and ischemia-induced preconditioning, March 1999, Circ Res, 84, 587-604].
- 11. With respect to claims 14-17, 19, Ping et al teach a method involving the observation of the isoform-selective translocation of protein kinase C ϵ and η and their role in the late phase of

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DETA/NO induces translocation of those isoforms (p.594, column 2).

ischemic preconditioning, as well as the effects of compounds including nitric oxide (NO) donors, such as diethylenetriamine/NO (DETA/NO) (p.590, column 2), NO synthase inhibitors, such as N-nitro-L-arginine (L-NA) (p. 590, columns 1-2), and PKC inhibitors, such as chelerythrine (p. 590, column 2) on protein kinase C isoforms. In particular, the rabbits were divided into different groups, including one that did not receive any treatment, one that received DETA/NO, and one that received (DETA/NO and chelerythrine). Assessment of translocation of PKC isoforms was conducted using standard SDS-PAGE Western immunoblotting techniques

Claims 14-17, 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Brick-12. Ghannam et al [Brick-Ghannam et al, Protein Kinase C (PKC) activation via Human Leucocyte Antigen Class II Molecules, 1991, 266:35, 24169-24175].

with antibodies against PKC isoforms α , β , γ , ϵ , ζ , θ , $\nu\lambda$, and μ ; PKC isoforms $\beta 1$ and $\beta 2$; and

PKC isoforms η and δ (p. 591, column 1), with particular focus on the ε and η isoforms, since

With respect to claims 14-17, 19, Brick-Ghannam et al teach a method involving the 13. analysis of intracellular localization of protein kinase C (PKC) types α , β , and γ in a lymphoblastoid B cell line (abstract, p.24171, column 2). Specifically, Brick-Ghannan et al teach a method that observes that anti-human leucocyte antigen (HLA) class II antibodies cause an increase cytosolic and membrane PKC activity (p. 24169, column 2). Brick-Ghannan et al further teach that transcriptional inhibitors, such as actinomycin D, or translational inhibitors, such as cycloheximide, inhibit the observed increase of PKC activity and quantity (p. 24173, columns 1-2, figs 7A, 7B).

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Conclusion

14. No claims are allowed.

The following references are also cited as art of interest: Ping et al [Ping et al, Ischemic 15.

preconditioning induces selective translocation of protein kinase C isoforms ϵ and \Re in the heart

of conscious rabbits without subcellular redistribution of total protein kinase C activity, 1997,

Circ Res, 81, 404-414]

Any inquiry concerning this communication or earlier communications from the 16.

examiner should be directed to Nelson Yang whose telephone number is (571) 272-0826. The

examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long V Le can be reached on (571)272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent 17.

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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